

APR 30 2009

AMENDMENTS IN THE CLAIMS

- 1 1. (Previously presented) An apparatus, comprising:
 - 2 a network component that employs a) one or more call characteristics to make a determination to initiate a request to a switch component for one or more positions of one or more mobile stations and b) one or more call parameters to identify one or more cellular network cells associated with the one or more mobile stations, wherein at least one of the one or more call parameters employed to identify one of the one or more cellular network cells is a telephony number of at least one of the one or more mobile stations; and
 - 9 wherein the network component receives, in response to the request, the one or more positions of the one or more mobile stations from a position component that determines the one or more positions of the one or more mobile stations continuously;
 - 12 and
 - 13 wherein the switch component assigns a channel to the at least one of the one or more mobile stations for a call upon a comparison of a calling party number with the at least one of the one or more call parameters.
- 1 2. (Original) The apparatus of claim 1, wherein the network component performs a comparison of the one or more call characteristics with one or more thresholds to make the determination to initiate the request for the one or more positions of the one or more mobile stations.

1 3. (Previously presented) The apparatus of claim 2, wherein the one or more
2 call characteristics comprise a pilot signal strength characteristic, and wherein the one
3 or more thresholds comprise a pilot signal strength threshold, and wherein the network
4 component performs a comparison of the pilot signal strength characteristic with the
5 pilot signal strength threshold; and

6 wherein the network component makes the determination to initiate the request
7 for the one or more positions of the one or more mobile stations based on a result of the
8 comparison of the pilot signal strength characteristic with the pilot signal strength
9 threshold.

1 4. (Previously presented) The apparatus of claim 2, wherein the network
2 component employs the one or more call characteristics to create one or more call
3 statistics, and wherein the one or more thresholds comprise one or more call
4 characteristic thresholds and one or more call statistic thresholds; and

5 wherein the network component performs a comparison of the one or more call
6 statistics with the one or more call statistic thresholds; and

7 wherein the network component employs a comparison of the one or more call
8 characteristics with the one or more call characteristic thresholds and the comparison of
9 the one or more call statistics with the one or more call statistic thresholds to make the
10 determination to initiate the request.

1 5. (Previously presented) The apparatus of claim 2, wherein the network
2 component comprises an interface, and wherein the network component receives the
3 one or more thresholds from a service provider through employment of the interface.

1 6. (Original) The apparatus of claim 1, wherein the network component
2 employs the determination to initiate the request to promote an avoidance of congestion
3 in one or more cellular network communication paths.

1 7. (Previously presented) The apparatus of claim 6, wherein the network
2 component makes the determination to initiate the request upon an exceedance of the
3 one or more call characteristics relative to one or more thresholds; and

4 wherein upon the exceedance of the one or more call characteristics relative to
5 the one or more thresholds, the network component and the position component
6 cooperate to obtain the one or more positions of the one or more mobile stations.

1 8. (Original) The apparatus of claim 7, wherein upon a termination of the
2 exceedance of the one or more call characteristics relative to the one or more
3 thresholds, the network component and the position component cooperate to
4 discontinue attainment of the one or more positions of the one or more mobile stations.

1 9. (Previously presented) The apparatus of claim 1, wherein the network
2 component employs the one or more call characteristics to perform a selection of the
3 one or more mobile stations from a plurality of mobile stations; and
4 wherein the network component employs the selection to formulate the request
5 for the one or more positions of the one or more mobile stations from the plurality of
6 mobile stations.

1 10. (Previously presented) The apparatus of claim 1, wherein the one or more
2 mobile stations are associated with the one or more cellular network cells; and

3 wherein the network component employs the one or more call characteristics to
4 perform a selection of the one or more cellular network cells from a plurality of cellular
5 network cells; and

6 wherein the network component employs the selection to formulate the request
7 for the one or more positions of the one or more mobile stations that are associated with
8 the one or more cellular network cells.

1 11. (Previously presented) The apparatus of claim 10, wherein the network
2 component employs the switch component to identify the one or more mobile stations
3 that are associated with the one or more cellular network cells; and

4 wherein the network component employs the switch component to determine the
5 one or more positions of the one or more mobile stations that are associated with the
6 one or more cellular network cells.

1 12. (Previously presented) The apparatus of claim 1, wherein the network
2 component receives the one or more positions of the one or more mobile stations in
3 response to the request; and

4 wherein the network component employs the one or more positions of the one or
5 more mobile stations and the one or more call characteristics to develop a coverage
6 map.

1 13. (Previously presented) The apparatus of claim 1, further comprising:

2 the switch component that provides the one or more call characteristics to the
3 network component;

4 wherein the network component employs the one or more call characteristics to
5 make a determination to initiate a request to the switch component; and

6 wherein the switch component obtains the one or more positions of the one or
7 more mobile stations based on the request to the switch component.

1 14. (Previously presented) The apparatus of claim 13, wherein the network
2 component provides to the switch component the one or more call parameters; and

3 wherein the switch component employs the one or more call parameters to
4 perform an identification of the one or more mobile stations from a plurality of mobile
5 stations; and

6 wherein the switch component employs the identification of the one or more
7 mobile stations from the plurality of mobile stations to obtain the one or more positions
8 of the one or more mobile stations.

1 15. (Previously presented) The apparatus of claim 14, wherein the one or
2 more mobile stations are associated with one or more calls; and

3 wherein the switch component employs the one or more call parameters to
4 perform an identification of the one or more calls from a plurality of calls; and

5 wherein the switch component employs the identification of the one or more calls
6 from the plurality of calls to obtain the one or more positions of the one or more mobile
7 stations that are associated with the one or more calls.

1 16. (Previously presented) The apparatus of claim 13, wherein the network
2 component and the switch component receive the one or more positions of the one or
3 more mobile stations from the position component; and

4 wherein the network component and the switch component cooperate to develop
5 a coverage map through employment of the one or more positions of the one or more
6 mobile stations.

1 17. (Original) The apparatus of claim 16, wherein the position component
2 employs one or more of an Enhanced Forward Link Trilateration algorithm and an IS-
3 801 solution using an Assisted Global Positioning System (AGPS), Advanced Forward
4 Link Trilateration (AFLT) or combined AGPS/AFLT algorithm to determine the one or
5 more positions of the one or more mobile stations.

1 18. (Previously presented) A method, comprising the steps of:
2 initiating a request to a switch component for one or more positions of one or
3 more mobile stations through employment of a) one or more call characteristics and b)
4 one or more call parameters to identify one or more cellular network cells associated
5 with the one or more mobile stations, wherein at least one of the one or more call
6 parameters employed to identify one of the one or more cellular network cells is a
7 telephony number of at least one of the one or more mobile stations;

8 receiving, in response to the request, the one or more positions of the one or
9 more mobile stations; and

10 determining the one or more positions of the one or more mobile stations
11 continuously;

12 wherein the switch component assigns a channel to the at least one of the one or
13 more mobile stations for a call upon a comparison of a calling party number with the at
14 least one of the one or more call parameters.

1 19. (Original) The method of claim 18, wherein the step of initiating the
2 request for the one or more positions of the one or more mobile stations through
3 employment of the one or more call characteristics comprises the steps of:

4 performing a comparison of the one or more call characteristics with one or more
5 thresholds; and

6 initiating the request for the one or more positions of the one or more mobile
7 stations based on the comparison.

1 20. (Previously presented) The method of claim 19, wherein the step of
2 initiating the request for the one or more positions of the one or more mobile stations
3 based on the comparison comprises the steps of:

4 determining the one or more call parameters associated with the one or more
5 thresholds;

6 identifying the one or more mobile stations from a plurality of mobile stations
7 through employment of the one or more call parameters; and

8 initiating the request for the one or more positions of the one or more mobile
9 stations through employment of the one or more call parameters.

1 21. (Canceled)

1 22. (Previously presented) The apparatus of claim 16, wherein the position
2 component is pre-provisioned with one or more intervals of time to determine the one or
3 more positions of the one or more mobile stations.

1 23. (Previously presented) The apparatus of claim 5, wherein the thresholds
2 provide a measure of a quality level of service provided to the one or more mobile
3 stations.

1 24. (Previously presented) The apparatus of claim 1, wherein the network
2 component employs the one or more call parameters to identify i) the one or more
3 cellular network cells associated with the one or more mobile stations or ii) the one or
4 more mobile stations.

1 25. (New) The apparatus of claim 1, wherein the network component limits a
2 number of requests for the one or more positions of the one or more mobile stations
3 based on a comparison of the one or more call characteristics with one or more
4 thresholds.

1 26. (New) The apparatus of claim 4, wherein one of the one or more call
2 statistics is a number of dropped calls within an hour.

1

1